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PTO/SB/21 (09-04) (AW 10/2004)

Approved for use through 7/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**TRANSMITTAL  
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	10/518,185
Filing Date	December 16, 2004
First Named Inventor	Akihiko Matsuoka et al.
Art Unit	2618
Examiner Name	Junpeng Chen
Attorney Docket No.	MAT-8579US

**ENCLOSURES (Check all that apply)**

- |   |  |   |
|---|--|---|
| <input checked="" type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Fee Attached   | <input type="checkbox"/> Drawing(s)  | <input type="checkbox"/> After Allowance Communication to TC                            |
| <input checked="" type="checkbox"/> Amendment/Reply<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/Declaration(s)         | <input type="checkbox"/> Licensing-related Papers  | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences     |
| <input type="checkbox"/> Extension of Time Request  | <input type="checkbox"/> Petition  | <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) |
| <input type="checkbox"/> Express Abandonment Request  | <input type="checkbox"/> Petition to Convert to a Provisional Application                            | <input type="checkbox"/> Proprietary Information  |
| <input type="checkbox"/> Information Disclosure Statement   | <input type="checkbox"/> Power of Attorney, Revocation, Change of Correspondence Address             | <input type="checkbox"/> Status Letter  |
| <input type="checkbox"/> Certified Copy of Priority Document(s)   | <input type="checkbox"/> Terminal Disclaimer   | <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):         |
| <input type="checkbox"/> Response to Missing Parts/Incomplete Application<br><input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Request for Refund  | Return Postcard   |
|   | <input type="checkbox"/> CD, Number of CD(s) _____<br><input type="checkbox"/> Landscape Table on CD |   |

**Remarks:****SIGNATURE OF APPLICANT, ATTORNEY OR AGENT**

Firm Name RatnerPrestia

Signature

Printed Name Lawrence E. Ashery

Date June 7, 2007

Registration No.

34,515

**CERTIFICATE OF TRANSMISSION / MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature

Typed or Printed Name

Deborah Spratt

Date

June 7, 2007

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Office, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, ALEXANDRIA, VA 22313-1450.

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Effective on 12/08/04.  
Fees pursuant to the Consolidated Appropriations Act. 2005 (H.R. 4818).

# FEE TRANSMITTAL For FY 2006

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 200

## Complete if Known

Application Number 10/518,185  
Filing Date December 16, 2004  
First Named Inventor Akihiko Matsuoka et al.  
Examiner Name Junpeng Chen  
Art Unit 2618  
Attorney Docket No. MAT-8579US

## METHOD OF PAYMENT (check all that apply)

☐ Check ☒ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): \_\_\_\_\_  
☒ Deposit Account Deposit Account Number: 18-0350 Deposit Account Name: RatnerPrestia

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee  
☒ Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

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## FEE CALCULATION

### 1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Small Entity	Fee (\$)	Small Entity	Fee (\$)	Small Entity	Fee (\$)	
Utility	300	150	500	250	200	100	—
Design	200	100	100	50	130	65	—
Plant	200	100	300	150	160	80	—
Reissue	300	150	500	250	600	300	—
Provisional	200	100	0	0	0	0	—

### 2. EXCESS CLAIM FEES

#### Fee Description

Each claim over 20 (including Reissues)

Each independent claim over 3 (including Reissues)

Multiple dependent claims

Small Entity	
Fee (\$)	Fee (\$)
50	25
200	100
360	180

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	Multiple Dependent Claims	Fee (\$)	Fee Paid (\$)
19	- 20 or HP =	x	=			
HP = highest number of total claims paid for, if greater than 20						
Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)			
4	- 3 or HP =	1	x 200 =	200		
HP = highest number of independent claims paid for, if greater than 3						

### 3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee (\$)

- 100 = / 50 = (round up to a whole number) x =

### 4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge):

Fees Paid (\$)

SUBMITTED BY		Complete (if applicable)			
Signature	Registration No. Attorney/Agent	34,515	Telephone	(610) 407-0700	
Name (Print/Type)	Lawrence E. Ashery		Date	June 7, 2007	

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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200.00 DP

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Application No.: 10/518,185  
Amendment Dated: June 7, 2007  
Reply to Office Action of: May 7, 2007

MAT-8579US

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application No: 10/518,185  
Applicant: Akihiko MATSUOKA, et al.  
Filed: December 16, 2004  
Title: NONLINEAR DISTORTION COMPENSATION CIRCUIT WITH  
FEEDBACK AND BASEBAND REFERENCE SIGNAL THAT ARE  
PHASE AND AMPLITUDE CONTROLLABLE (AS AMENDED)  
TC/A.U.: 2618  
Examiner: Junpeng Chen  
Confirmation No.: 5599  
Docket No.: MAT-8579US

**AMENDMENT**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Responsive to the Office Action dated **May 7, 2007**, please amend the above-identified application as follows:

- ☐ **Amendments to the Specification** begin on page    of this paper.
- ☒ **Amendments to the Claims** are reflected in the listing of claims which begins on page **2** of this paper.
- ☐ **Amendments to the Drawings** begin on page    of this paper and includes an attached replacement sheet.
- ☐ **Amendments to the Abstract** are on page    of this paper. A clean version of the Abstract is on page    of this paper.
- ☒ **Remarks/Arguments** begin on page **9** of this paper.